380

Gusset plates

Hex nut, leveling nut and washers

Ground surface adjacent to traffic

Lower handhole, locate downstream side of post

Base ℄ Elev

1" Min
6" Max

3" Mortar

Payment length of CIDH pile, see Project Plans
22'-0" Min, see Sign Reference sheets

Conduits see Electrical Plans

See Note 1

#4 Spiral @ 3¼" pitch with 135° hook @ terminations

3" Clr

5'-0" Pile Dia

Vertical Reinf equally spaced, #11 total 28

3" Clr

SECTION H-H

CIDH PILE FOUNDATION DETAILS

3½"

5½"

PATTERN OF ELLIPTICAL HANDHOLE CUT OUT

Grind edges smooth according to AWS D1.1 Section 5.15.4.3.

1¾"

Post wall

¼" HHCS-¾" long. Tack weld Hex nut inside, total 4

⅛" Neoprene gasket cemented to cover ℄

10 gauge cover ℄

PLAN

Contour contact edges of structural tubing to fit outside diameter of pipe

¼" Dia Hex head bolt with nut

Tack weld Hex nut

Cover ℄ not shown

Elliptical handhole opening to match pattern provided

1¾" Typ

℄ Handhole = ℄ Pipe

TS7" × 5" × ½" × 1¾"

ELEVATION

LOWER HANDHOLE AND COVER DETAILS

Attach 3/16" Dia or longer brass bolt with washer to inside of post for grounding jumper

Lower handhole

2'-2"

1'-3"

POST BASE ELEVATION

NOTES:

1. Pile shall be placed against undisturbed material.

2. Primer and paint post interior from base plate to 6" above lower handhole-unless post is galvanized.

3. On single post sign structures, the post shall be raked out of plumb, with the use of leveling nuts to make the bottom of the sign frame level.

4. When foundation is located on a steep slope with exposed face of concrete adjacent to traffic, see "DETAIL C".

5. Slope protection required when indicated on Project Plans.

6. Foundation design is based on 2001 AASHTO article 13.6 Broms' approximate procedure assuming a cohesionless material. The angle of internal friction used is 30 degree and unit weight of soil used is 120 lb/ft³.

Ground surface away from traffic

Slope protection see Note 5

Ground surface adjacent to traffic

1" Min
6" Max

1"

DETAIL C

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN-TRUSS SINGLE POST TYPE FOUNDATION AND MISCELLANEOUS DETAILS CHANGEABLE MESSAGE SIGNS MODEL 500

NO SCALE

S116

1-27-06